THEATER C2 EMPLOYMENT FOR THE EAF

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Chief, Command & Control
Employment Division

OVERVIEW

- SCOPE
- THE DYNAMICS OF AIR FORCE C2
- THEATER C2 OPERATIONS
  - EMPLOYMENT OF AEROSPACE POWER
- EXECUTION FOR GEO
  - THEATER SPECIFIC EXAMPLES
- EAF CONSIDERATIONS
- SUMMARY

SCOPE

- Provide Framework for EAF and LD/HD C2&ISR forces
- Define Theater-wide C2 Functions
- Feed CONOPS Development and Modernization Initiatives

SCOPE

relate…

THEATER-LEVEL C2 EXECUTION

and…

EAF OPERATIONS

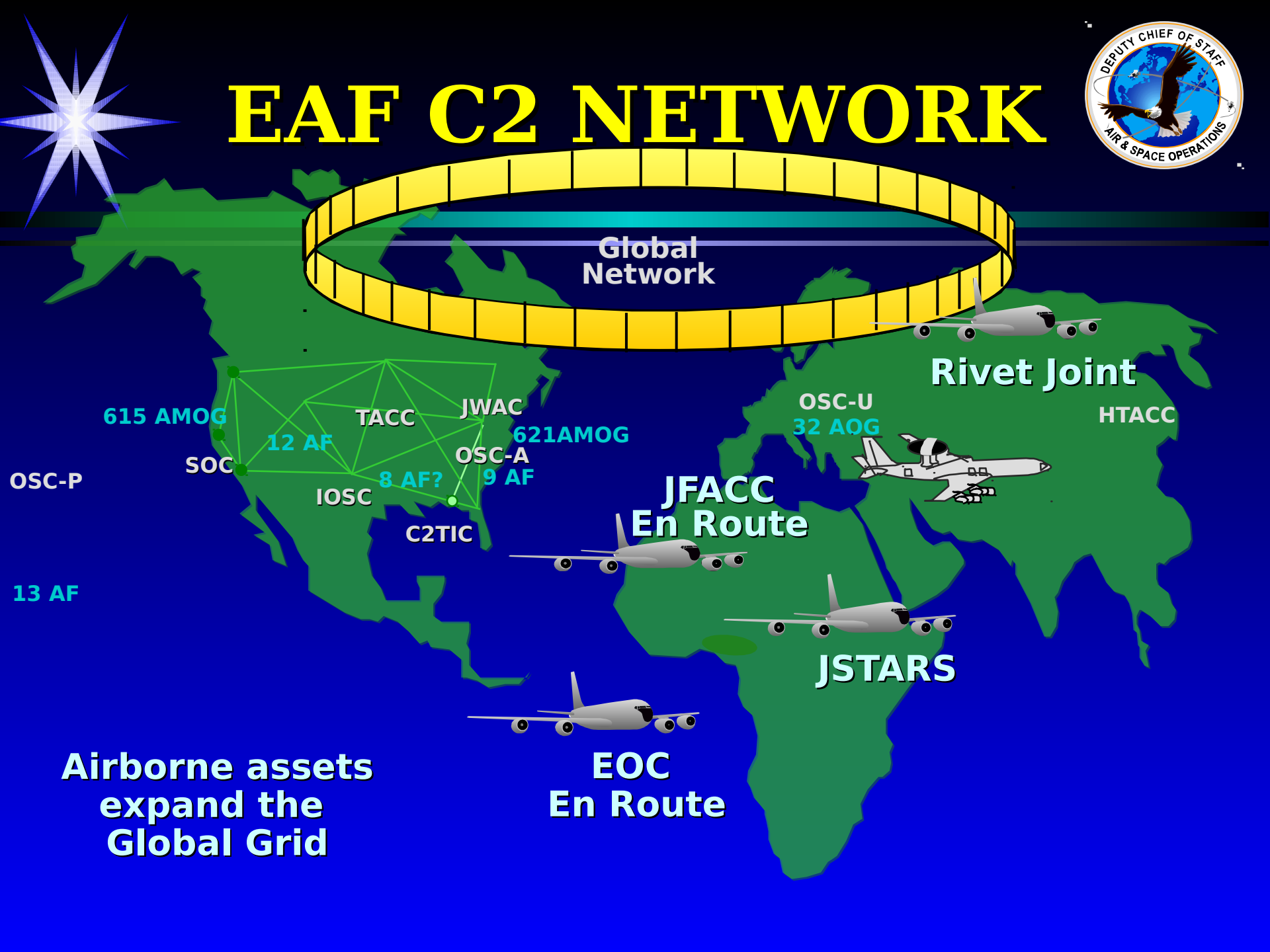
THE SPAN OF C2

1. **JCS Pub 1-02**
   - **"The exercise of authority and direction by a properly designated commander…"**
2. **AF "Command and Control"**
   - **AFDD-1, AFPD 13-1, AFI 13-108,13-109**
3. **C2 4-Star Summit**
   - ***Scoping C2…***

C2 4-STAR SUMMIT

- The exercise of authority and direction…
- Employed in planning, directing, coordinating, and controlling forces and operations in the accomplishment of the mission
- Functions are performed through an arrangement of personnel, equipment, communications, facilities, and procedures…

EAF C2 NETWORK



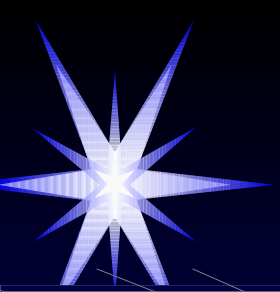
THE SPAN OF C2

4. Execution of Theater-Level C2 Enabling Warfighters to Achieve JFC Objectives

- Centralized Control/Decentralized Execution

- "Effects-Based Operations"

INTEGRATED C2 ARCHITECTURE



Joint Planning Network
Joint Data Network

Global Grid

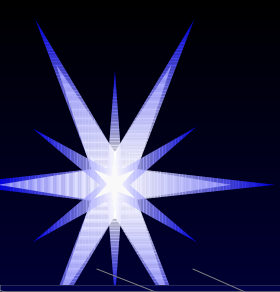
SWC
STRAT
National
JWAC
OSC
TACC
AIA
AFSOC
Service(s)
SOC

Commander
En route

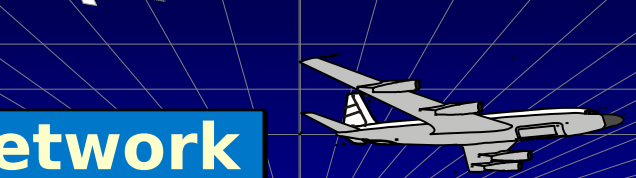
CTF
EOC
ASOC
CAOC
BCC
BCC
TACP
Coalition
Center(s)
Remote
Sensors
Army
CTOC(s)
FLOT
Marine
MAGTAF(s)
Navy
CVG(s)

Small, Distributed Nodes

INTEGRATED C2 ARCHITECTURE

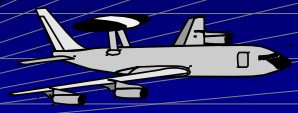


Joint Planning Network
Joint Data Network



Rivet Joint

UAV



AWACS

JSTARS

Global Grid

SWC

STRAT

National

JWAC

OSC

TACC

AIA

AFSOC

Service(s)

SOC

Commander
En route

CTF

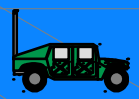
EOC

ASOC

CAOC

BCC

BCC



TACP

Coalition
Center(s)

Remot
e
Sensor
s

Army
CTOC(s)

FLOT

Navy
CVG(s)

Marine
MAGTAF(s)

Small, Distributed Nodes

Theater-Wide C2 Functions

- SURVEILLANCE
- EARLY WARNING
- DATA LINK MANAGEMENT
- AIRSPACE MANAGEMENT

Theater-Wide C2 Functions

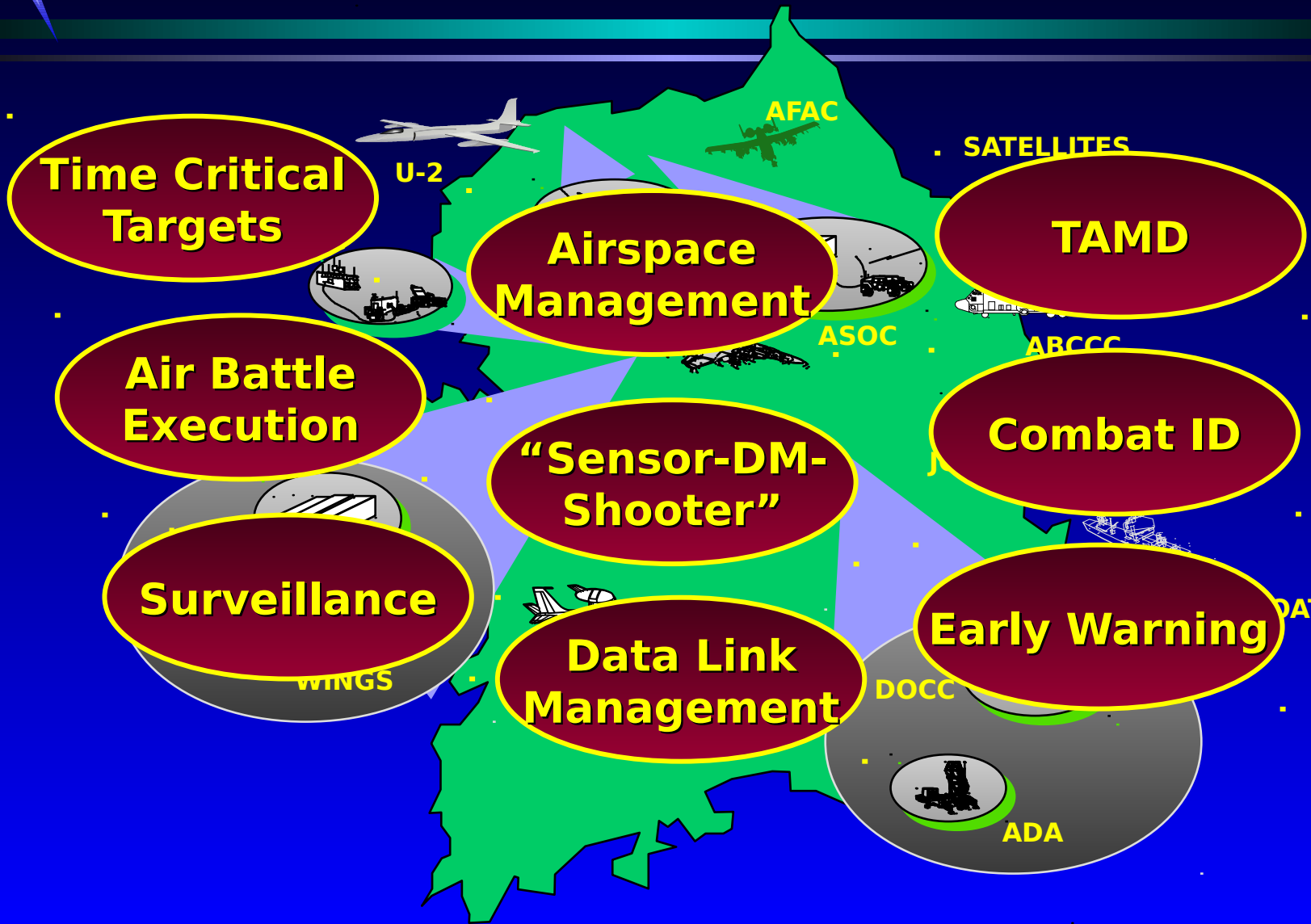
- AIR BATTLE EXECUTION
  - TIME CRITICAL TARGETS
  - THEATER AIR & MISSILE DEFENSE
- COMBAT ID
- “SENSOR-DECISION MAKER-SHOOTER”

C2 EXECUTION FOR GEO

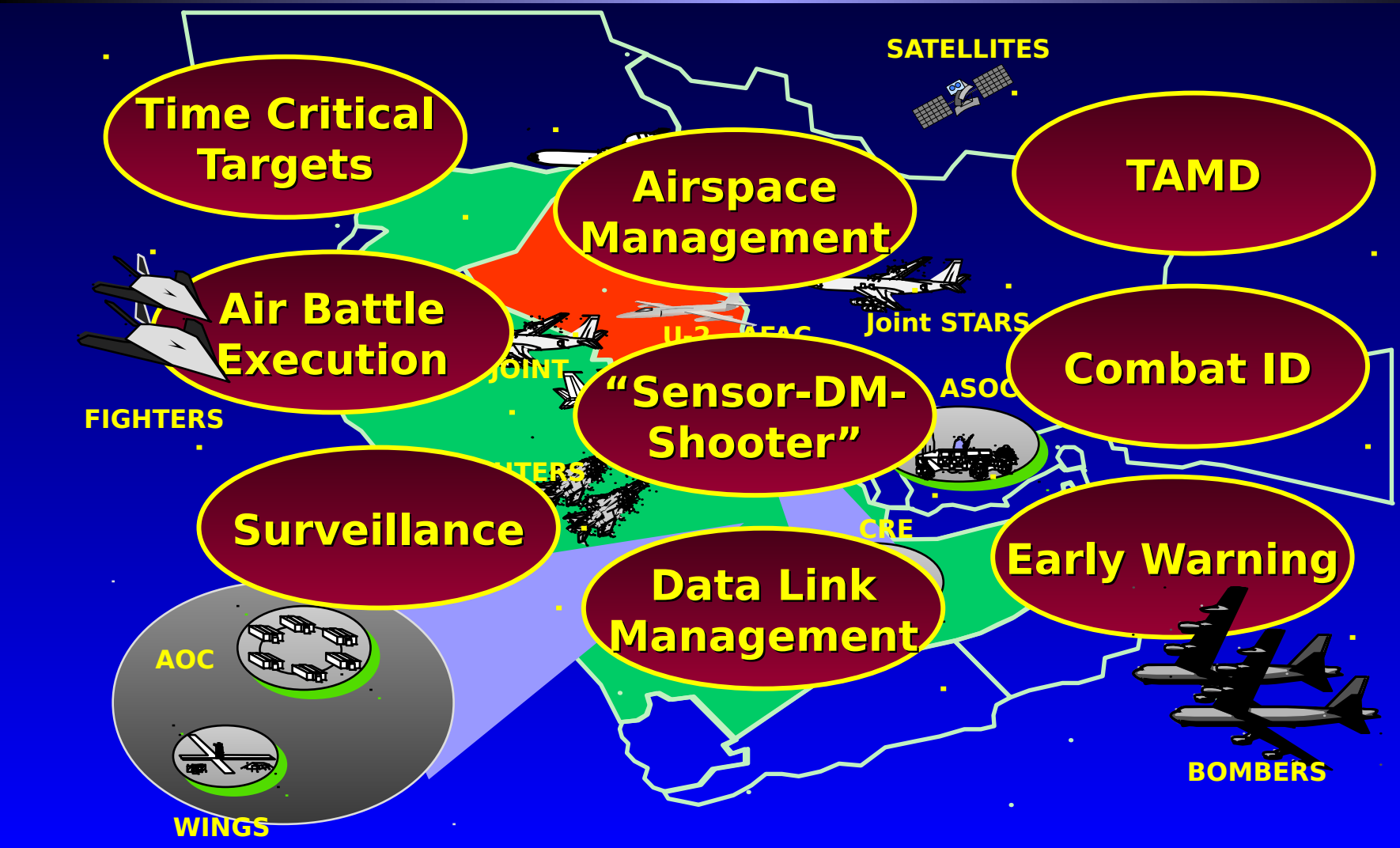
THEATER WITH ROBUST C2 INFRASTRUCTURE

THEATER WITH LITTLE OR NO EXISTING C2 INFRASTRUCTURE

CASE I - MTW


Time Critical Targets
U-2
AFAC
SATELLITES
Airspace Management
TAMD
ASOC
ABCCC
Air Battle Execution
Combat ID
"Sensor-DM-Shooter"
Surveillance
Early Warning
Data Link Management
WINGS
DOCC
ADA

CASE Ia - MTW

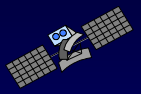

SATELLITES
Time Critical Targets
Airspace Management
TAMD
Air Battle Execution
Joint STARS
Combat ID
FIGHTERS
JOINT
"Sensor-DM-Shooter"
ASOC
Surveillance
CRE
Early Warning
Data Link Management
AOC
WINGS
BOMBERS

CASE II - SSC

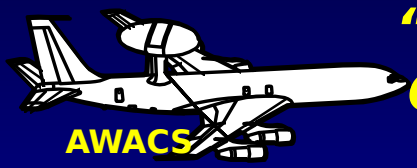
HVAA CAP

DIRMOB FWD

U-2

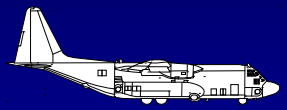


SATELLITES



AWACS

"AIRBORNE COMMAND ELEMENT"



ABCCC

Rivet JOINT

Combat ID

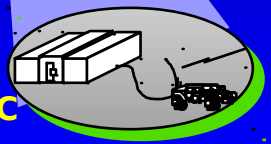
Airspace Management

Data Link Management

Air Battle Execution

TACP

Surveillance



ASOC

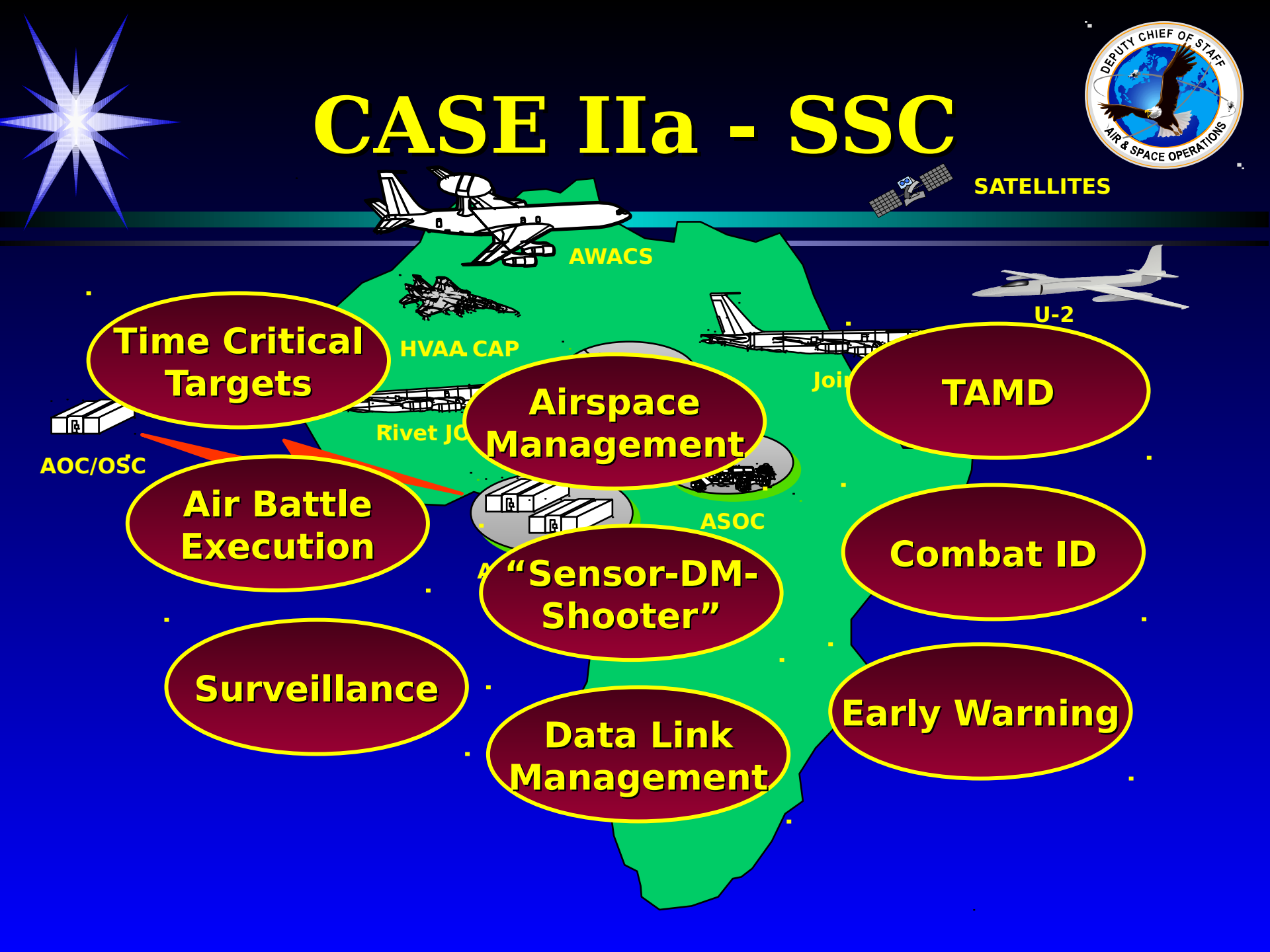
AOC (POPE AFB)

141 ACS (ANG)

CASE IIa - SSC

SATELLITES
AWACS
U-2
HVAA CAP
Joint STARS
"AIRBORNE COMMAND ELEMENT"
Rivet JOINT
TACP
AOC/OSC
ASOC
AOC (QRP)

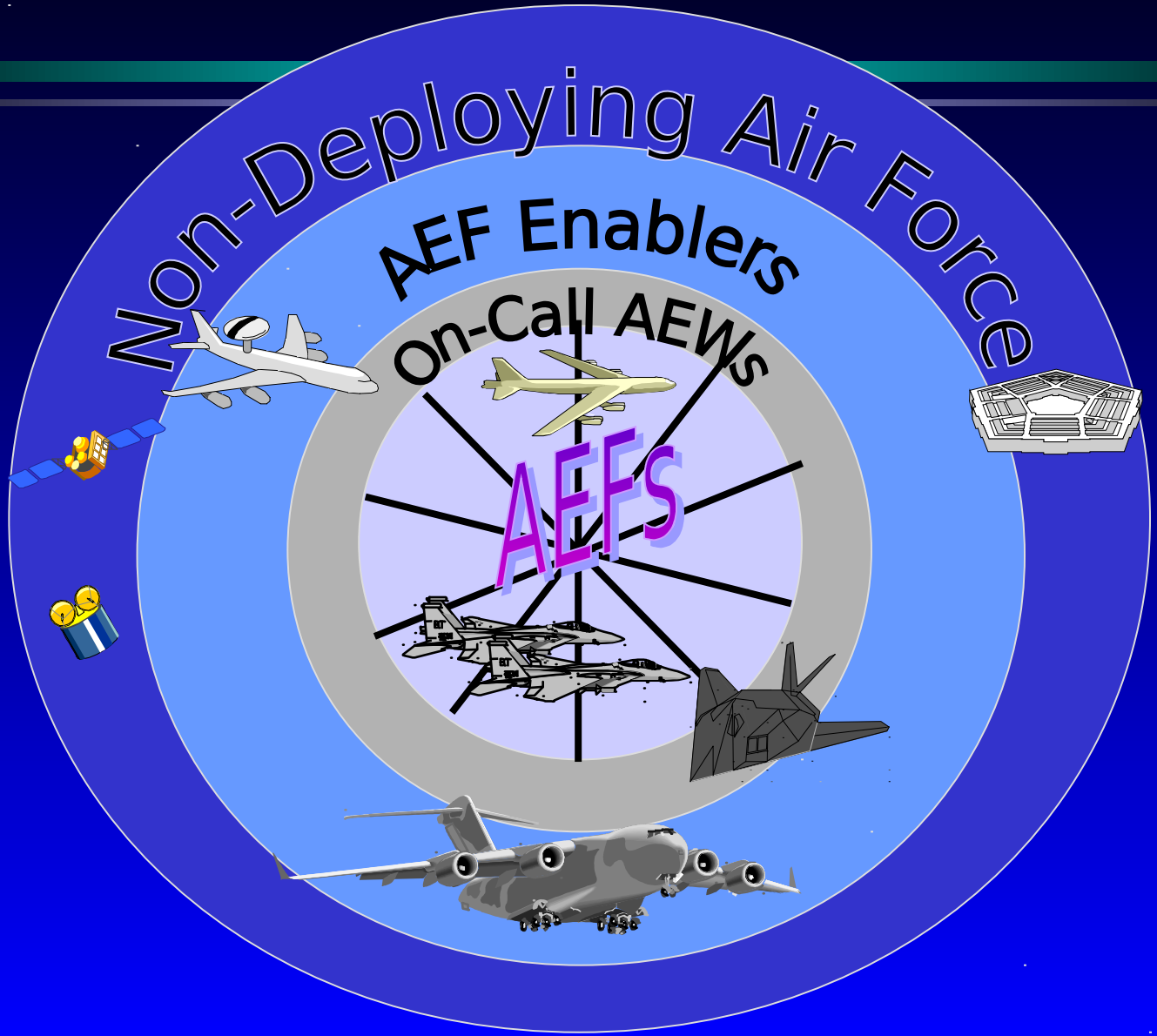
CASE IIa - SSC


SATELLITES
AWACS
U-2
HVAA CAP
Time Critical Targets
Airspace Management
TAMD
AOC/OSC
Air Battle Execution
ASOC
Combat ID
"Sensor-DM-Shooter"
Surveillance
Early Warning
Data Link Management

ATTRIBUTES OF EXPEDITIONARY C2

- Minimal Forward Footprint
- Multi-mission/Multi-sensor
- Non-threatening Presence
- Timely, Accurate, Distributed C2
- Rapid Employment
- Scaleable and Tailorable ***based on CINC's mission requirements***
- Built-in C2 & ISR Enablers for the ASETF

EXPEDITIONARY AEROSPACE FORCE



Way Ahead for EAF C2&ISR

- EAF Analysis Wargame, 4 - 12 Feb 99

- EAF CONOPS Development (Annex A to PAD 99-01)
  - Resolution of C2 & ISR LD/HD Issues
- Integrate C2 Roadmap with Air Staff EAF Policy and Guidance

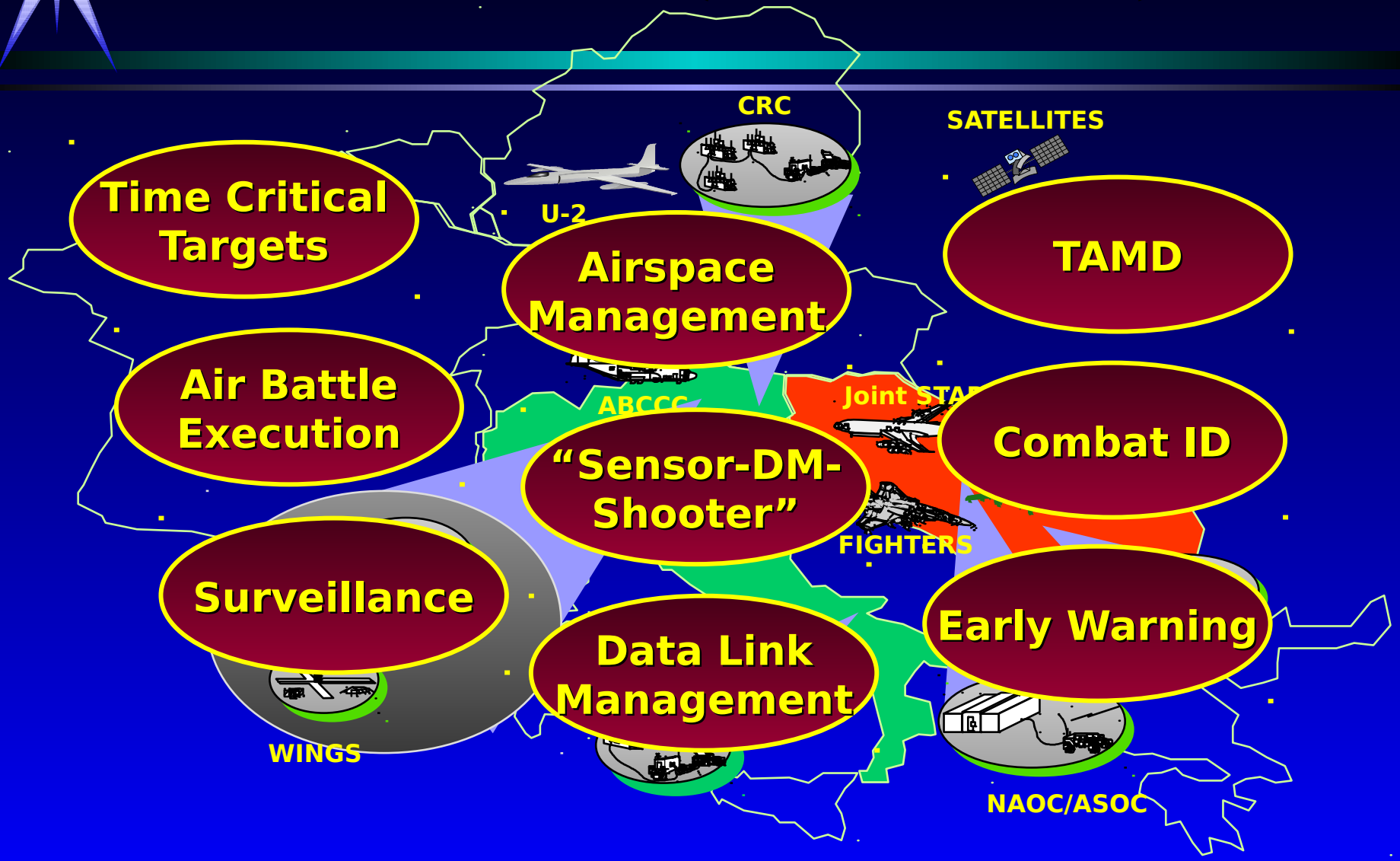
SUMMARY

- Theater-wide EAF C2 and ISR capabilities are essential to execution of JFACC's mission
  - Requirements vary by Theater
  - Theater-level C2 execution functions cannot be Assumed

- EAF must incorporate Theater-wide C2

BACKUP SLIDES

CASE Ib (MOOTW)



AOC

The principal air operations installation from which aircraft and air warning functions of combat air operations are directed, controlled, and executed. It is the senior agency of the Air Force Component Commander from which command and control of air operations are coordinated with other components and Services.

Joint Pub 1-02

AOC

The AOC is the air and space operations planning and execution focal point for the AFFOR and is where centralized planning, direction, control, and coordination of air and space operations occur …

AFTTP (I) 3-2.17

ASOC

The ASOC is the primary control agency component of the TACS for the execution of CAS. Collocated with the senior Army echelon's FSE, normally the Corps FSE, the ASOC coordinates and directs CAS in support of Army operations …

Joint Pub 3-09.3

CRC

A mobile command, control, and communications radar element of the the US Air Force theater air control system subordinate to the air operations center … It performs decentralized command and control of joint operations by conducting threat warning, battle management, theater missile defense, weapons control, combat identification, and strategic communications.

Joint Pub 1-02

Joint STARS

Joint STARS is an integrated Army-Air Force command and control battle management surveillance, target detection, and tracking platform. On-board battle managers provide direction provide direction based on data collected by the Joint STARS sensors …

AFTTP (I) 3-2.17

ASOC

The ASOC plans, coordinates, and directs aerospace support for land forces, normally at corps level and below. It is directly subordinate to the JAOC and is responsible for the integration of aerospace operations within its assigned sector to include CAS, AI, Airlift, SEAD, and CSAR …

AFTTP (I) 3-2.17

ASOC

The ASOC is an operational component of the TACS under the operational control of the Air Operations Center (AOC). The ASOC coordinates and directs close air support and reconnaissance sorties allocated by the Joint Force Air Component Commander ...

AFI 13-106

TACP

… Their purpose is to provide liaison to the ground commander on matters related to tactical air support and to provide terminal attack control for CAS missions …

AFI 13-106

TACP

The TACP is the principal Air Force liaison element collocated with Army maneuver units from battalion through corps. The primary TACP mission is to advise ground commanders on the capabilities and limitations of aerospace power …

AFTTP (I) 3-2.17

TACP

TACPs are located with Army maneuver units from battalion through corps. … The mission is to advise and assist the ground commander in planning, requesting, and coordinating CAS.

Joint Pub 3-09.3

CRC

The CRC is directly subordinate to the JAOC and is the primary radar element charged with decentralized execution of the air defense and airspace control functions. Within its AOR, the CRC directs region or sector air defense and provides aircraft control and monitoring for offensive and defensive missions …

AFTTP (I) 3-2.17